10/692,381 LLM
3/24/2006

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"20040115176"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 11:21
L2	2	"5223420".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 11:20
L3	2	"5989244".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 11:20
L4	2	"20010044654"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 11:23
L5	2	"20030072741"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:19
L6	2585	(tissue adj engineered adj vascular adj vessel) or (tissue adj engineered adj blood adj vessel) or TEV	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:15
L7	43	L6 and((Fibrinogen and thrombin) or (fibrin adj gel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:10
L8	19	L7 and ((tubular adj shape) or (cylindrical adj mandrel) or mandrel or (central adj mandrel) or (inner adj mandrel) or tubular)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:45
L9	1	L8 and (((vascular adj smooth adj muscle adj cell) or VSMC) and fibroblasts)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:18

EAST Search History

L10	1	L8 and ((protease adj inhibitor) or aprotinin or (aminocaproic adj acid) or eACA or (".epsilon.-aminocaproic" adj acid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:38
L11	3526	(tissue adj engineered adj vascular adj vessel) or (tissue adj engineered adj blood adj vessel) or TEV or ((artificial or prosthetic) adj (vessel or vein or capillary))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:49
L12	74	L11 and((Fibrinogen and thrombin) or (fibrin adj gel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:51
L13	30	L12 and ((tubular adj shape) or (cylindrical adj mandrel) or mandrel or (central adj mandrel) or (inner adj mandrel) or tubular)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:34
L14	1	L13 and (((vascular adj smooth adj muscle adj cell) or VSMC) and fibroblasts)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:17
L15	60	L6 and ((Fibrinogen and thrombin) or (fibrin adj gel) or fibrin)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:17
L16	30	L15 and ((tubular adj shape) or (cylindrical adj mandrel) or mandrel or (central adj mandrel) or (inner adj mandrel) or tubular)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:18
L17	5	L16 and (((vascular adj smooth adj muscle adj cell) or VSMC) and fibroblasts)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:29
L18	1	L17 and ((protease adj inhibitor) or aprotinin or (aminocaproic adj acid) or eACA or (".epsilon.-aminocaproic" adj acid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:30
L19	2	L17 and @ad<"20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:08

EAST Search History

L20	22	L16 and @ad<"20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:37
L21	18	L20 and (((vascular adj smooth adj muscle adj cell) or VSMC or (smooth adj muscle adj cell)) and fibroblasts)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:37
L22	1	L21 and ((protease adj inhibitor) or aprotinin or (aminocaproic adj acid) or eACA or (".epsilon.-aminocaproic" adj acid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:30
L23	644	L11 and ((tubular adj shape) or (cylindrical adj mandrel) or mandrel or (central adj mandrel) or (inner adj mandrel) or tubular or (tubular adj mold) or (tube adj mold) or (cylindrical adj mold) or (silastic adj tube))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:36
L24	278	L6 and ((tubular adj shape) or (cylindrical adj mandrel) or mandrel or (central adj mandrel) or (inner adj mandrel) or tubular or (tubular adj mold) or (tube adj mold) or (cylindrical adj mold) or (silastic adj tube))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:36
L25	33	L23 and((Fibrinogen and thrombin) or (fibrin adj gel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:36
L26	19	L24 and((Fibrinogen and thrombin) or (fibrin adj gel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:36
L27	23	L25 and @ad<"20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:46
L28	14	L26 and @ad<"20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:37

EAST Search History

L29	19	L27 and (((vascular adj smooth adj muscle adj cell) or VSMC or (smooth adj muscle adj cell)) and fibroblasts)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:15
L30	13	L28 and (((vascular adj smooth adj muscle adj cell) or VSMC or (smooth adj muscle adj cell)) and fibroblasts)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:41
L31	1	L29 and ((protease adj inhibitor) or aprotinin or (aminocaproic adj acid) or eACA or (".epsilon.-aminocaproic" adj acid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:49
L32	0	L30 and ((protease adj inhibitor) or aprotinin or (aminocaproic adj acid) or eACA or (".epsilon.-aminocaproic" adj acid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:39
L33	1	L29 and (pulse or (rhythmic adj pulse) or (magnetic adj pulse) or (electrical adj pulse))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:40
L34	2	L25 and (pulse or (rhythmic adj pulse) or (magnetic adj pulse) or (electrical adj pulse))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:40
L35	2	L26 and (pulse or (rhythmic adj pulse) or (magnetic adj pulse) or (electrical adj pulse))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:40
L36	1	L7 and (((tubular adj shape) or (cylindrical adj mandrel) or mandrel or (central adj mandrel) or (inner adj mandrel) or tubular) with mold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:43
L37	7	L6 and (((tubular adj shape) or (cylindrical adj mandrel) or mandrel or (central adj mandrel) or (inner adj mandrel) or tubular) with mold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:49
L38	278	L6 and ((tubular adj shape) or (cylindrical adj mandrel) or mandrel or (central adj mandrel) or (inner adj mandrel) or tubular)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:45

EAST Search History

L39	47	L38 and (((vascular adj smooth adj muscle adj cell) or VSMC or (smooth adj muscle adj cell)) or fibroblasts)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:26
L40	35	L39 and @ad<"20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:50
L41	13	L39 and @pd<"20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:46
L42	21722	(((tubular adj shape) or (cylindrical adj mandrel) or mandrel or (central adj mandrel) or (inner adj mandrel) or tubular) with mold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:00
L43	27	L42 and ((tissue adj engineered adj vascular adj vessel) or (tissue adj engineered adj blood adj vessel) or TEV or (tissue adj engineered adj vessel) or ((artificial or prosthetic) adj (vessel or vein or capillary)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:09
L44	12	L43 and @ad<"20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:02
L45	5	L44 and((Fibrinogen and thrombin) or (fibrin adj gel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:01
L46	13811	(((tubular adj shape) or (cylindrical adj mandrel) or tubular or (silastic adj tube)) with mold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:10
L47	14	L46 and((Fibrinogen and thrombin) or (fibrin adj gel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:09

EAST Search History

L48	4	L46 and ((tissue adj engineered adj vascular adj vessel) or (tissue adj engineered adj blood adj vessel) or TEV or (tissue adj engineered adj vessel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:12
L49	2	L48 and @ad<"20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:15
L50	253	gazit.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:08
L51	0	L50 and ((tissue adj engineered adj vascular adj vessel) or (tissue adj engineered adj blood adj vessel) or TEV or (tissue adj engineered adj vessel) or ((artificial or prosthetic) adj (vessel or vein or capillary)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:09
L52	0	L50 and((Fibrinogen and thrombin) or (fibrin adj gel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:09
L53	8879	((Fibrinogen and thrombin) or (fibrin adj gel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:10
L54	1121	L53 and ((tubular adj shape) or (cylindrical adj mandrel) or tubular or (tubular adj mold) or (silastic adj tube) or (tubular adj scaffold))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:15
L55	363	L54 and ((protease adj inhibitor) or aprotinin or (aminocaproic adj acid) or eACA or (".epsilon.-aminocaproic" adj acid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:12
L56	20	L54 and ((tissue adj engineered adj vascular adj vessel) or (tissue adj engineered adj blood adj vessel) or TEV or (tissue adj engineered adj vessel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:14

EAST Search History

L57	14	L56 and @ad<"20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:25
L58	2589	((tissue adj engineered adj vascular adj vessel) or (tissue adj engineered adj blood adj vessel) or TEV or (tissue adj engineered adj vessel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:23
L59	260	L58 and ((tubular adj shape) or (cylindrical adj mandrel) or tubular or (tubular adj mold) or (silastic adj tube) or (tubular adj scaffold))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:24
L60	50	L59 and (((vascular adj smooth adj muscle adj cell) or VSMC or (smooth adj muscle adj cell)) or fibroblasts)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:15
L61	36	L60 and @ad<"20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:16
L62	30	L61 and ((collagen adj matrix) or collagen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:22
L63	1074	(((fibrinogen and thrombin) or fibrin) and cell) with (mixture or composition)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:47
L64	5	L63 and ((tissue adj engineered adj vascular adj vessel) or (tissue adj engineered adj blood adj vessel) or TEV or (tissue adj engineered adj vessel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:48
L65	202	L63 and ((tubular adj shape) or (cylindrical adj mandrel) or tubular or (tubular adj mold) or (silastic adj tube) or (tubular adj scaffold))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:24
L66	67	L65 and @ad<"20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:25

EAST Search History

L67	50	L66 and (((vascular adj smooth adj muscle adj cell) or VSMC or (smooth adj muscle adj cell)) or fibroblasts)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:26
L68	24	L66 and (((vascular adj smooth adj muscle adj cell) or VSMC or (smooth adj muscle adj cell)) and fibroblasts)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:26
L69	1667	(((fibrinogen and thrombin) or fibrin) and cell) with (scaffold or matrix or support)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:48
L70	2635	(((fibrinogen and thrombin) or fibrin)) with (scaffold or matrix or support)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:48
L71	5	L70 and ((tissue adj engineered adj vascular adj vessel) or (tissue adj engineered adj blood adj vessel) or TEV or (tissue adj engineered adj vessel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:48
L72	5	L68 and ((protease adj inhibitor) or aprotinin or (aminocaproic adj acid) or eACA or (".epsilon.-aminocaproic" adj acid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:50

10/692, 381 Dialog
LLM 3/24/2006

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? b biosci

>>>          44 is unauthorized
>>>          76 is unauthorized
>>>2 of the specified files are not available
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     $0.00  Estimated cost FileHomeBase
     $0.06  TELNET
     $0.06  Estimated cost this search
     $0.06  Estimated total session cost   0.313 DialUnits


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Set	Items	Description

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engineered (w) blood (w) vessel) or TEV or (tissue (w) engineered (w) vessel))
Processing
Processed 10 of 29 files ...
Processing
Processed 20 of 29 files ...
Completed processing all files

4875211	TISSUE
144169	ENGINEERED

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         3909101  VASCULAR
          650295  VESSEL
               2  TISSUE(W)ENGINEERED(W)VASCULAR(W)VESSEL
         4875211  TISSUE
          144169  ENGINEERED
         9013245  BLOOD
          650295  VESSEL
             112  TISSUE(W)ENGINEERED(W)BLOOD(W)VESSEL
           14634  TEV
         4875211  TISSUE
          144169  ENGINEERED
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              27  TISSUE(W)ENGINEERED(W)VESSEL
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                  (TISSUE (W) ENGINEERED (W) VESSEL))
? s s1 and ((((fibrinogen and thrombin) or fibrin) ) with (gel or scaffold or
matrix or support))
>>>Invalid syntax
? s s1 and ((((fibrinogen and thrombin) or fibrin) ) (w) (gel or scaffold or
matrix or support))
Processing
Processed  10 of  29 files ...
Processing
Processed  20 of  29 files ...
Completed processing all files
          14769  S1
         169109  FIBRINOGEN
         181017  THROMBIN
         117005  FIBRIN
        1365813  GEL
          50351  SCAFFOLD
        1286896  MATRIX
        7051906  SUPPORT
           3125  ((FIBRINOGEN AND THROMBIN) OR FIBRIN)(W)(((GEL OR
                 SCAFFOLD) OR MATRIX) OR SUPPORT)
      S2       4  S1 AND ((((FIBRINOGEN AND THROMBIN) OR FIBRIN) ) (W) (GEL
                 OR SCAFFOLD OR MATRIX OR SUPPORT))
? rd

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      S3       4  RD  (unique items)
? s s1 and  ((tubular (w) shape) or (cylindrical (w) mandrel) or tubular or
(tubular (w) mold) or (silastic (w) tube) or (tubular (w) scaffold))
Processing
Processed  20 of  29 files ...
Completed processing all files
          14769  S1
         249282  TUBULAR
         816951  SHAPE
            855  TUBULAR(W)SHAPE
         159832  CYLINDRICAL
           2348  MANDREL
             41  CYLINDRICAL(W)MANDREL
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         249282  TUBULAR
         102352  MOLD
             29  TUBULAR(W)MOLD
          22617  SILASTIC
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```
          600193  TUBE
            1117  SILASTIC(W)TUBE
          249282  TUBULAR
           50351  SCAFFOLD
             126  TUBULAR(W)SCAFFOLD
      S4      28  S1 AND  ((TUBULAR (W) SHAPE) OR (CYLINDRICAL (W) MANDREL)
                  OR TUBULAR OR (TUBULAR (W) MOLD) OR (SILASTIC (W) TUBE)
                  OR (TUBULAR (W) SCAFFOLD))
? s s4 and ((((fibrinogen and thrombin) or fibrin) ) (w) (gel or scaffold or
matrix or support))
Processing
              28  S4
          169109  FIBRINOGEN
          181017  THROMBIN
          117005  FIBRIN
         1365813  GEL
           50351  SCAFFOLD
         1286896  MATRIX
         7051906  SUPPORT
            3125  ((FIBRINOGEN AND THROMBIN) OR FIBRIN)(W)(((GEL OR
                  SCAFFOLD) OR MATRIX) OR SUPPORT)
      S5       2  S4 AND ((((FIBRINOGEN AND THROMBIN) OR FIBRIN) ) (W) (GEL
                  OR SCAFFOLD OR MATRIX OR SUPPORT))
? ds

Set     Items   Description
S1      14769   ((TISSUE (W) ENGINEERED (W) VASCULAR (W) VESSEL) OR (TISSUE
              (W) ENGINEERED (W) BLOOD (W) VESSEL) OR TEV OR (TISSUE (W) E-
             NGINEERED (W) VESSEL))
S2          4   S1 AND ((((FIBRINOGEN AND THROMBIN) OR FIBRIN) ) (W) (GEL -
             OR SCAFFOLD OR MATRIX OR SUPPORT))
S3          4   RD  (unique items)
S4         28   S1 AND  ((TUBULAR (W) SHAPE) OR (CYLINDRICAL (W) MANDREL) -
             OR TUBULAR OR (TUBULAR (W) MOLD) OR (SILASTIC (W) TUBE) OR (T-
             UBULAR (W) SCAFFOLD))
S5          2   S4 AND ((((FIBRINOGEN AND THROMBIN) OR FIBRIN) ) (W) (GEL -
             OR SCAFFOLD OR MATRIX OR SUPPORT))
? t s3/free/all

 3/8/1     (Item 1 from file: 5)
0015596396   BIOSIS NO.: 200510290896
Fibrin-based tissue-engineered blood vessels: Differential effects of
  biomaterial and culture parameters on mechanical strength and vascular
  reactivity
2005


 3/8/2     (Item 1 from file: 35)
01984618  ORDER NO: AADAA-I3113533
Development of a fibrin-based tissue-engineered vasculature construct for
implantation
  Year:    2004


 3/8/3     (Item 1 from file: 135)
DIALOG(R)File 135:(c) 2006 NewsRx. All rts. reserv.

0000178321      (USE FORMAT 7 OR 9 FOR FULLTEXT)
Tissue-engineered blood vessels have potential for use in heart bypass
surgery
```

WORD COUNT: 568
December 17, 2004 (20041217)

DESCRIPTORS: University at Buffalo; Angiology; Cardiology; All News; Professional News; Angiogenesis
SUBJECT HEADING: Coronary Artery Bypass

3/8/4 (Item 1 from file: 357)
0342649 DBR Accession No.: 2004-14941
Producing tissue-engineered vascular vessels useful as in vivo vascular graft, involves molding vessel-forming fibrin mixture having fibrinogen, thrombin and cells into fibrin gel **, and incubating** fibrin gel **in medium for growth of cells - vascular vessel preparation for use in tissue engineering** 2004

? t s5/free/all

5/8/1 (Item 1 from file: 35)
01984618 ORDER NO: AADAA-I3113533
Development of a fibrin-based tissue-engineered vasculature construct for implantation
Year: 2004

5/8/2 (Item 1 from file: 357)
0342649 DBR Accession No.: 2004-14941
Producing tissue-engineered vascular vessels useful as in vivo vascular graft, involves molding vessel-forming fibrin mixture having fibrinogen, thrombin and cells into fibrin gel **, and incubating** fibrin gel **in medium for growth of cells - vascular vessel preparation for use in tissue engineering** 2004

? s (fibrin (w) based) (s)((tissue (w) engineered (w) vascular (w) vessel) or (tissue (w) engineered (w) blood (w) vessel) or TEV or (tissue (w) engineered (w) vessel))
Processing
Processed 10 of 29 files ...
Completed processing all files
```
          117005  FIBRIN
         6828778  BASED
         4875211  TISSUE
          144169  ENGINEERED
         3909101  VASCULAR
          650295  VESSEL
               2  TISSUE(W)ENGINEERED(W)VASCULAR(W)VESSEL
         4875211  TISSUE
          144169  ENGINEERED
         9013245  BLOOD
          650295  VESSEL
             112  TISSUE(W)ENGINEERED(W)BLOOD(W)VESSEL
           14634  TEV
         4875211  TISSUE
          144169  ENGINEERED
          650295  VESSEL
              27  TISSUE(W)ENGINEERED(W)VESSEL
      S6       0  (FIBRIN (W) BASED) (S)((TISSUE (W) ENGINEERED (W)
                  VASCULAR (W) VESSEL) OR (TISSUE (W) ENGINEERED (W) BLOOD
                  (W) VESSEL) OR TEV OR (TISSUE (W) ENGINEERED (W) VESSEL))
```
? s (fibrin (w) based) and((tissue (w) engineered (w) vascular (w) vessel) or (tissue (w) engineered (w) blood (w) vessel) or TEV or (tissue (w) engineered (w) vessel))

```
Processing
Processed  10 of  29 files ...
Completed processing all files
          117005  FIBRIN
         6828778  BASED
             337  FIBRIN(W)BASED
         4875211  TISSUE
          144169  ENGINEERED
         3909101  VASCULAR
          650295  VESSEL
               2  TISSUE(W)ENGINEERED(W)VASCULAR(W)VESSEL
         4875211  TISSUE
          144169  ENGINEERED
         9013245  BLOOD
          650295  VESSEL
             112  TISSUE(W)ENGINEERED(W)BLOOD(W)VESSEL
           14634  TEV
         4875211  TISSUE
          144169  ENGINEERED
          650295  VESSEL
              27  TISSUE(W)ENGINEERED(W)VESSEL
      S7        3  (FIBRIN (W) BASED) AND((TISSUE (W) ENGINEERED (W)
                   VASCULAR (W) VESSEL) OR (TISSUE (W) ENGINEERED (W) BLOOD
                   (W) VESSEL) OR TEV OR (TISSUE (W) ENGINEERED (W) VESSEL))
? s s7 and  ((tubular (w) shape) or (cylindrical (w) mandrel) or tubular or
(tubular (w) mold) or (silastic (w) tube) or (tubular (w) scaffold))
Processing
Processed  20 of  29 files ...
Completed processing all files
               3  S7
          249282  TUBULAR
          816951  SHAPE
             855  TUBULAR(W)SHAPE
          159832  CYLINDRICAL
            2348  MANDREL
              41  CYLINDRICAL(W)MANDREL
          249282  TUBULAR
          249282  TUBULAR
          102352  MOLD
              29  TUBULAR(W)MOLD
           22617  SILASTIC
          600193  TUBE
            1117  SILASTIC(W)TUBE
          249282  TUBULAR
           50351  SCAFFOLD
             126  TUBULAR(W)SCAFFOLD
      S8        1  S7 AND  ((TUBULAR (W) SHAPE) OR (CYLINDRICAL (W) MANDREL)
                   OR TUBULAR OR (TUBULAR (W) MOLD) OR (SILASTIC (W) TUBE)
                   OR (TUBULAR (W) SCAFFOLD))
? t s8/free

 8/8/1     (Item 1 from file: 35)
01984618  ORDER NO: AADAA-I3113533
Development of a  fibrin - based  tissue-engineered vasculature construct
for implantation
  Year:    2004
? s s4 and (((vascular (w) smooth (w) muscle (w) cell) or VSMC or (smooth (w)
muscle adj cell)) and fibroblasts)
Processing
Processing
Processed  10 of  29 files ...
```

```
Processing
Processing
Processing
Processed  20 of  29 files ...
Processing
Completed processing all files
              28  S4
         3909101  VASCULAR
          833629  SMOOTH
         2649511  MUSCLE
        13817723  CELL
           21813  VASCULAR(W)SMOOTH(W)MUSCLE(W)CELL
           14219  VSMC
          833629  SMOOTH
               0  MUSCLE ADJ CELL
               0  SMOOTH(W)MUSCLE ADJ CELL
          479559  FIBROBLASTS
      S9       0  S4 AND (((VASCULAR (W) SMOOTH (W) MUSCLE (W) CELL) OR
                  VSMC OR (SMOOTH (W) MUSCLE ADJ CELL)) AND FIBROBLASTS)
? s  ((tubular (w) shape) or (cylindrical (w) mandrel) or tubular or (tubular
(w) mold) or (silastic (w) tube) or (tubular (w) scaffold)) and ((((fibrinogen
and thrombin) or fibrin) ) (w) (gel or scaffold or matrix or support))
Processing
Processed  10 of  29 files ...
Processing
Processing
Processed  20 of  29 files ...
Processing
Completed processing all files
          249282  TUBULAR
          816951  SHAPE
             855  TUBULAR(W)SHAPE
          159832  CYLINDRICAL
            2348  MANDREL
              41  CYLINDRICAL(W)MANDREL
          249282  TUBULAR
          249282  TUBULAR
          102352  MOLD
              29  TUBULAR(W)MOLD
           22617  SILASTIC
          600193  TUBE
            1117  SILASTIC(W)TUBE
          249282  TUBULAR
           50351  SCAFFOLD
             126  TUBULAR(W)SCAFFOLD
          169109  FIBRINOGEN
          181017  THROMBIN
          117005  FIBRIN
         1365813  GEL
           50351  SCAFFOLD
         1286896  MATRIX
         7051906  SUPPORT
            3125  ((FIBRINOGEN AND THROMBIN) OR FIBRIN)(W)(((GEL OR
                  SCAFFOLD) OR MATRIX) OR SUPPORT)
     S10      96  ((TUBULAR (W) SHAPE) OR (CYLINDRICAL (W) MANDREL) OR
                  TUBULAR OR (TUBULAR (W) MOLD) OR (SILASTIC (W) TUBE) OR
                  (TUBULAR (W) SCAFFOLD)) AND ((((FIBRINOGEN AND THROMBIN)
                  OR FIBRIN) ) (W) (GEL OR SCAFFOLD OR MATRIX OR SUPPORT))
? s  s10 and (((tissue (w) engineered (w) vascular (w) vessel) or (tissue (w)
engineered (w) blood (w) vessel) or TEV or (tissue (w) engineered (w)
vessel)))
```

```
Processing
Processing
Processed  10 of  29 files ...
Processing
Processing
Processing
Processed  20 of  29 files ...
Processing
Completed processing all files
              96  S10
         4875211  TISSUE
          144169  ENGINEERED
         3909101  VASCULAR
          650295  VESSEL
               2  TISSUE(W)ENGINEERED(W)VASCULAR(W)VESSEL
         4875211  TISSUE
          144169  ENGINEERED
         9013245  BLOOD
          650295  VESSEL
             112  TISSUE(W)ENGINEERED(W)BLOOD(W)VESSEL
           14634  TEV
         4875211  TISSUE
          144169  ENGINEERED
          650295  VESSEL
              27  TISSUE(W)ENGINEERED(W)VESSEL
     S11       2  S10 AND (((TISSUE (W) ENGINEERED (W) VASCULAR (W) VESSEL)
                  OR (TISSUE (W) ENGINEERED (W) BLOOD (W) VESSEL) OR TEV OR
                  (TISSUE (W) ENGINEERED (W) VESSEL)))
? t s11/free/all

 11/8/1     (Item 1 from file: 35)
01984618  ORDER NO: AADAA-I3113533
Development of a fibrin-based tissue-engineered vasculature construct for
implantation
  Year:    2004


 11/8/2     (Item 1 from file: 357)
0342649  DBR Accession No.: 2004-14941
Producing tissue-engineered vascular vessels useful as in vivo vascular
    graft, involves molding vessel-forming fibrin mixture having
    fibrinogen, thrombin and cells into  fibrin   gel , and incubating
    fibrin   gel  in medium for growth of cells - vascular vessel
    preparation for use in tissue engineering  2004
? ds

Set     Items   Description
S1      14769   ((TISSUE (W) ENGINEERED (W) VASCULAR (W) VESSEL) OR (TISSUE
              (W) ENGINEERED (W) BLOOD (W) VESSEL) OR TEV OR (TISSUE (W) E-
             NGINEERED (W) VESSEL))
S2          4   S1 AND ((((FIBRINOGEN AND THROMBIN) OR FIBRIN) ) (W) (GEL -
             OR SCAFFOLD OR MATRIX OR SUPPORT))
S3          4   RD  (unique items)
S4         28   S1 AND  ((TUBULAR (W) SHAPE) OR (CYLINDRICAL (W) MANDREL) -
             OR TUBULAR OR (TUBULAR (W) MOLD) OR (SILASTIC (W) TUBE) OR (T-
             UBULAR (W) SCAFFOLD))
S5          2   S4 AND ((((FIBRINOGEN AND THROMBIN) OR FIBRIN) ) (W) (GEL -
             OR SCAFFOLD OR MATRIX OR SUPPORT))
S6          0   (FIBRIN (W) BASED) (S)((TISSUE (W) ENGINEERED (W) VASCULAR
              (W) VESSEL) OR (TISSUE (W) ENGINEERED (W) BLOOD (W) VESSEL) OR
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              TEV OR (TISSUE (W) ENGINEERED (W) VESSEL))
S7          3   (FIBRIN (W) BASED) AND((TISSUE (W) ENGINEERED (W) VASCULAR
              (W) VESSEL) OR (TISSUE (W) ENGINEERED (W) BLOOD (W) VESSEL) OR
              TEV OR (TISSUE (W) ENGINEERED (W) VESSEL))
S8          1   S7 AND  ((TUBULAR (W) SHAPE) OR (CYLINDRICAL (W) MANDREL) -
              OR TUBULAR OR (TUBULAR (W) MOLD) OR (SILASTIC (W) TUBE) OR (T-
              UBULAR (W) SCAFFOLD))
S9          0   S4 AND (((VASCULAR (W) SMOOTH (W) MUSCLE (W) CELL) OR VSMC
              OR (SMOOTH (W) MUSCLE ADJ CELL)) AND FIBROBLASTS)
S10        96   ((TUBULAR (W) SHAPE) OR (CYLINDRICAL (W) MANDREL) OR TUBUL-
              AR OR (TUBULAR (W) MOLD) OR (SILASTIC (W) TUBE) OR (TUBULAR (-
              W) SCAFFOLD)) AND ((((FIBRINOGEN AND THROMBIN) OR FIBRIN) ) (-
              W) (GEL OR SCAFFOLD OR MATRIX OR SUPPORT))
S11         2   S10 AND (((TISSUE (W) ENGINEERED (W) VASCULAR (W) VESSEL) -
              OR (TISSUE (W) ENGINEERED (W) BLOOD (W) VESSEL) OR TEV OR (TI-
              SSUE (W) ENGINEERED (W) VESSEL)))
? s  s2 and ((protease (w) inhibitor) or aprotinin or (aminocaproic (w) acid)
or eACA or (epsilonaminocaproic (w) acid))
Processing
Processed  20 of  29 files ...
Completed processing all files
               4  S2
          433137  PROTEASE
         2029415  INHIBITOR
           67833  PROTEASE(W)INHIBITOR
           26125  APROTININ
           11850  AMINOCAPROIC
        11883826  ACID
            9778  AMINOCAPROIC(W)ACID
            1632  EACA
              57  EPSILONAMINOCAPROIC
        11883826  ACID
              56  EPSILONAMINOCAPROIC(W)ACID
     S12       3  S2 AND ((PROTEASE (W) INHIBITOR) OR APROTININ OR
                  (AMINOCAPROIC (W) ACID) OR EACA OR (EPSILONAMINOCAPROIC
                  (W) ACID))
?
? rd

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.
     S13       3  RD  (unique items)
? t s13/free/all

 13/8/1     (Item 1 from file: 5)
0015596396   BIOSIS NO.: 200510290896
Fibrin-based tissue-engineered blood vessels: Differential effects of
  biomaterial and culture parameters on mechanical strength and vascular
  reactivity
2005


 13/8/2     (Item 1 from file: 35)
01984618  ORDER NO: AADAA-I3113533
Development of a fibrin-based tissue-engineered vasculature construct for
implantation
  Year:    2004


 13/8/3     (Item 1 from file: 357)
```

0342649 DBR Accession No.: 2004-14941
Producing tissue-engineered vascular vessels useful as in vivo vascular **graft, involves molding vessel-forming fibrin mixture having fibrinogen, thrombin and cells into** fibrin gel **, and incubating** fibrin gel **in medium for growth of cells - vascular vessel preparation for use in tissue engineering** 2004

```
? s s2 and (pulse or (rhythmic (w) pulse) or (magnetic (w) pulse) or
(electrical (w) pulse))
              4  S2
         648152  PULSE
          57919  RHYTHMIC
         648152  PULSE
             40  RHYTHMIC(W)PULSE
        2200866  MAGNETIC
         648152  PULSE
            724  MAGNETIC(W)PULSE
        1184381  ELECTRICAL
         648152  PULSE
           1816  ELECTRICAL(W)PULSE
     S14       1  S2 AND (PULSE OR (RHYTHMIC (W) PULSE) OR (MAGNETIC (W)
                  PULSE) OR (ELECTRICAL (W) PULSE))
? t s14/free
```

14/8/1 (Item 1 from file: 357)
0342649 DBR Accession No.: 2004-14941
Producing tissue-engineered vascular vessels useful as in vivo vascular graft, involves molding vessel-forming fibrin mixture having fibrinogen, thrombin and cells into fibrin gel **, and incubating** fibrin gel **in medium for growth of cells - vascular vessel preparation for use in tissue engineering** 2004

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? t s14/medium,k
```

14/K/1 (Item 1 from file: 357)
DIALOG(R)File 357:Derwent Biotech Res.

0342649 DBR Accession No.: 2004-14941 PATENT
Producing tissue-engineered vascular vessels useful as in vivo vascular graft, involves molding vessel-forming fibrin mixture having fibrinogen, thrombin and cells into fibrin gel **, and incubating** fibrin gel **in medium for growth of cells - vascular vessel preparation for use in tissue engineering**
AUTHOR: SWARTZ D D; ANDREADIS S T
PATENT ASSIGNEE: UNIV NEW YORK STATE RES FOUND 2004
PATENT NUMBER: WO 200438004 PATENT DATE: 20040506 WPI ACCESSION NO.: 2004-399958 (200437)
PRIORITY APPLIC. NO.: US 421015 APPLIC. DATE: 20021023
NATIONAL APPLIC. NO.: WO 2003US33955 APPLIC. DATE: 20031023
LANGUAGE: English

...**vivo vascular graft, involves molding vessel-forming fibrin mixture having fibrinogen, thrombin and cells into** fibrin gel **, and incubating** fibrin gel **in medium for growth of cells - vascular vessel preparation for use in tissue engineering**
ABSTRACT: DERWENT ABSTRACT: NOVELTY - Producing (M1) a **tissue - engineered vascular vessel** , involves providing a vessel-forming fibrin mixture comprising fibrinogen, thrombin, and cells suitable for forming a vascular vessel, molding the vessel-forming fibrin mixture into a **fibrin gel** having a tubular shape, and incubating the **fibrin gel** having a tubular shape in a medium suitable for growth of the cells

under conditions effective to produce a **tissue - engineered vascular vessel** . DETAILED DESCRIPTION - Producing (M1) a **tissue - engineered vascular vessel** , involves: (a) providing a vessel-forming fibrin mixture (FM1) comprising fibrinogen, thrombin, and cells suitable for forming a vascular vessel, molding the vessel-forming fibrin mixture into a **fibrin gel** having a tubular shape, and incubating the **fibrin gel** having a tubular shape in a medium suitable for growth of the cells under conditions effective to produce a **tissue - engineered vascular vessel** ; or (b) providing FM1, where at least one of the components of FM1 is autologous to the patient, molding FM1, incubating the **fibrin gel** to produce a **tissue - engineered vascular vessel** for a particular patient, and implanting the **tissue - engineered vascular vessel** into a particular patient. An INDEPENDENT CLAIM is also included for a **tissue - engineered vascular vessel** produced by (M1), and comprising a gelled fibrin mixture comprising fibrinogen, thrombin and cells, where...

... M1) further involves seeding endothelial cells on the interior surface of the vessel, subjecting the **fibrin gel** having a tubular shape to a **pulse** after the molding step, and changing the medium suitable for growth. The medium suitable for...

... be added to the outer surface of the vessel are fibroblasts or specific organ cells. **Fibrin gel** is combined with a porous scaffold to enhance vascular grafting. The porous scaffold is decellularized...

... the fibrinogen is autologous. The cells suitable for forming a vascular vessel are autologous. The **fibrin gel** is combined with a porous scaffold to enhance implanting.Preferred Vascular Vessel: The vessel has...

... an outer surface on which cells are present. USE - (M1) is useful for producing a **tissue - engineered vascular vessel** (claimed). The **tissue - engineered vascular vessel** produced by (M1) is suitable as an in vivo vascular graft, preferably as a vein graft in a human being. ADVANTAGE - (M1) enables production of **tissue - engineered vascular vessel** that is more compatible to implantation and limits immune rejection. The vascular vessel is strong...

... was added. Some of the vessel constructs were connected to a pneumatic pulsation system. Thus, **tissue - engineered vessel** constructs were prepared.(105 pages)

```
? ds

Set     Items   Description
S1      14769   ((TISSUE (W) ENGINEERED (W) VASCULAR (W) VESSEL) OR (TISSUE
             (W) ENGINEERED (W) BLOOD (W) VESSEL) OR TEV OR (TISSUE (W) E-
             NGINEERED (W) VESSEL))
S2          4   S1 AND ((((FIBRINOGEN AND THROMBIN) OR FIBRIN) ) (W) (GEL -
             OR SCAFFOLD OR MATRIX OR SUPPORT))
S3          4   RD  (unique items)
S4         28   S1 AND  ((TUBULAR (W) SHAPE) OR (CYLINDRICAL (W) MANDREL) -
             OR TUBULAR OR (TUBULAR (W) MOLD) OR (SILASTIC (W) TUBE) OR (T-
             UBULAR (W) SCAFFOLD))
S5          2   S4 AND ((((FIBRINOGEN AND THROMBIN) OR FIBRIN) ) (W) (GEL -
             OR SCAFFOLD OR MATRIX OR SUPPORT))
S6          0   (FIBRIN (W) BASED) (S)((TISSUE (W) ENGINEERED (W) VASCULAR
             (W) VESSEL) OR (TISSUE (W) ENGINEERED (W) BLOOD (W) VESSEL) OR
             TEV OR (TISSUE (W) ENGINEERED (W) VESSEL))
S7          3   (FIBRIN (W) BASED) AND((TISSUE (W) ENGINEERED (W) VASCULAR
```

```
              (W) VESSEL) OR (TISSUE (W) ENGINEERED (W) BLOOD (W) VESSEL) OR
               TEV OR (TISSUE (W) ENGINEERED (W) VESSEL))
S8          1   S7 AND  ((TUBULAR (W) SHAPE) OR (CYLINDRICAL (W) MANDREL) -
              OR TUBULAR OR (TUBULAR (W) MOLD) OR (SILASTIC (W) TUBE) OR (T-
              UBULAR (W) SCAFFOLD))
S9          0   S4 AND (((VASCULAR (W) SMOOTH (W) MUSCLE (W) CELL) OR VSMC
              OR (SMOOTH (W) MUSCLE ADJ CELL)) AND FIBROBLASTS)
S10        96   ((TUBULAR (W) SHAPE) OR (CYLINDRICAL (W) MANDREL) OR TUBUL-
              AR OR (TUBULAR (W) MOLD) OR (SILASTIC (W) TUBE) OR (TUBULAR (-
              W) SCAFFOLD)) AND ((((FIBRINOGEN AND THROMBIN) OR FIBRIN) ) (-
              W) (GEL OR SCAFFOLD OR MATRIX OR SUPPORT))
S11         2   S10 AND (((TISSUE (W) ENGINEERED (W) VASCULAR (W) VESSEL) -
              OR (TISSUE (W) ENGINEERED (W) BLOOD (W) VESSEL) OR TEV OR (TI-
              SSUE (W) ENGINEERED (W) VESSEL)))
S12         3   S2 AND ((PROTEASE (W) INHIBITOR) OR APROTININ OR (AMINOCAP-
              ROIC (W) ACID) OR EACA OR (EPSILONAMINOCAPROIC (W) ACID))
S13         3   RD  (unique items)
S14         1   S2 AND (PULSE OR (RHYTHMIC (W) PULSE) OR (MAGNETIC (W) PUL-
              SE) OR (ELECTRICAL (W) PULSE))
? save temp
Temp SearchSave "TF212576878" stored
? logoff
       24mar06 16:18:32 User276741 Session D116.2
           $24.96    4.230 DialUnits File5
              $0.00  2 Type(s) in Format  6
            $0.00  2 Types
    $24.96  Estimated cost File5
            $9.81    1.582 DialUnits File24
     $9.81  Estimated cost File24
            $5.18    0.835 DialUnits File28
     $5.18  Estimated cost File28
           $58.90    2.510 DialUnits File34
    $58.90  Estimated cost File34
            $6.27    1.529 DialUnits File35
              $0.00  5 Type(s) in Format  6
            $0.00  5 Types
     $6.27  Estimated cost File35
            $6.26    0.875 DialUnits File40
     $6.26  Estimated cost File40
            $7.47    1.205 DialUnits File41
     $7.47  Estimated cost File41
            $6.47    1.407 DialUnits File50
     $6.47  Estimated cost File50
            $3.89    1.037 DialUnits File65
     $3.89  Estimated cost File65
           $15.03    1.708 DialUnits File71
    $15.03  Estimated cost File71
           $35.07    3.131 DialUnits File73
    $35.07  Estimated cost File73
            $2.61    0.607 DialUnits File91
     $2.61  Estimated cost File91
            $5.38    1.539 DialUnits File94
     $5.38  Estimated cost File94
            $4.98    1.173 DialUnits File98
     $4.98  Estimated cost File98
            $5.48    0.953 DialUnits File110
     $5.48  Estimated cost File110
            $7.48    1.385 DialUnits File135
              $0.00  1 Type(s) in Format  8
            $0.00  1 Types
     $7.48  Estimated cost File135
```

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          $6.42    1.035 DialUnits File136
     $6.42  Estimated cost File136
          $2.97    0.991 DialUnits File143
     $2.97  Estimated cost File143
          $9.97    2.216 DialUnits File144
     $9.97  Estimated cost File144
         $12.66    3.724 DialUnits File155
    $12.66  Estimated cost File155
          $2.85    0.813 DialUnits File164
     $2.85  Estimated cost File164
         $11.66    1.041 DialUnits File172
    $11.66  Estimated cost File172
          $4.88    0.793 DialUnits File185
     $4.88  Estimated cost File185
         $36.49    1.636 DialUnits File357
             $2.60  1 Type(s) in Format  3
             $0.00  5 Type(s) in Format  6
          $2.60  6 Types
    $39.09  Estimated cost File357
          $2.52    0.719 DialUnits File369
     $2.52  Estimated cost File369
          $3.37    0.963 DialUnits File370
     $3.37  Estimated cost File370
          $0.00    1.255 DialUnits File391
     $0.00  Estimated cost File391
         $23.54    1.003 DialUnits File434
    $23.54  Estimated cost File434
          $4.69    0.733 DialUnits File467
     $4.69  Estimated cost File467
          OneSearch, 29 files, 42.629 DialUnits FileOS
     $7.20  TELNET
   $337.06  Estimated cost this search
   $337.12  Estimated total session cost  42.942 DialUnits

Logoff: level 05.10.03 D  16:18:32

You are now logged off
```